

21 July 1970

WORK STATEMENT

1. GENERAL:

a. The contractor is expected to develop a concept of operations and an implementation plan and schedule for a distributed experimental network of computers in the intelligence community for solving a variety of problems of common concern. The plan is to be based on the assumptions that:

- (1) The initial network will consist of at least three nodes, CIA, DIA and NSA with provision for expansion to include other agencies (e.g. FTD, NPIC, etc).
- (2) Common hardware and software will be available at each node in the network.
- (3) Each participating organization will provide qualified personnel to operate their system and to engage in problem solving activities.

b. In addition this plan will take into account the current planning of the COINS Project Management Office.

2. CONCEPTS:

a. A user operating from a remote terminal in one agency should be able to work directly, in a secure fashion with either his own system or any one of the other participating systems in the network.

b. A user operating from a remote terminal should be able to operate in either an interactive or remote batch mode depending upon his desires. For example a user should have the following kinds of capabilities:

- (1) To interrogate and retrieve information from files in any participating system.

- (2) To remotely update or maintain files in any participating system and also a capability to submit batch updates.
- (3) To use preprogrammed routines in any system.
- (4) To remotely write and debug programs in two or more higher higher level languages (e.g. FORTRAN IV and COBOL). on any one of the systems and to store these programs for future use.
- (5) To write and edit upper and lower case textual material (NOTE: Could be useful in writing inter-agency reports using a conference call technique).
- (6) To share graphics
- (7) To specify output to be delivered to one or more remote devices.

3. SPECIFIC TASK: *continuation of effort*

(a) (60%) Describes the type of data processing activities, data sources, data files and processes for three broad substantive intelligence areas of common concern to the participating agencies. The three substantive intelligence areas will be identified by the COINS project Manager in consultation with the Subsystem Managers. For each of these areas the contractor will:

- (1) Describe current operations throughout the community, inter-organizational relationships, problems and costs associated with the current effort.
- (2) Project improvements and payoffs to be derived by the community if the network is used in support of the effort.

(a) (20%) Prepare a concept of operations without specifying specific hardware except in generic terms. Identify applications and describing capabilities to be available in the network.

- (b) (20%) Prepare a general implementation plan and schedule:
 - (1) Identify and describe in detail the major tasks to be performed in each fiscal year starting in FY-71 thru FY-75. The following estimates will be provided for each task.
 - (a) Beginning and completion date
 - (b) Number man months of effort required by specialty (e.g. communications engineer, computer engineer, systems analyst, junior programmer, senior programmer, etc.)
 - (c) Dollar costs
 - (2) Prepare an implementation schedule integrating the tasks showing relationships between tasks according to time.
 - (a) Pert Chart
 - (b) Milestone Chart
 - (3) Prepare a detail break down of costs (a) manpower by specialty and (b) dollars both which should be related to time and tasks

4. INFORMATION TO BE PROVIDED BY THE GOVERNMENT

- (a) The COINS Project Manager will make available:
 - (1) The general plan of events,
 - (2) Results of studies to date
 - (3) Design specifications for future systems that have been tentively identified.

b. The COINS Project Manager in consultation with the Subsystem Managers will identify the three substantive intelligence areas to be considered by the contractors.

c. The participating agencies will make available the information required by the contractors on the three substantive intelligence areas (e.g. briefing, discussions, reports, cost of effort, etc).

d. The COINS Project Management Office will provide management and direction of this effort.

5. ITEMS TO BE DELIVERED BY CONTRACTOR

1. By 30 September 1970 the contractor will deliver a concept of operations and an implementation plan and schedule containing at a minimum the items specified above.

2. In addition, he should be prepared to deliver several oral briefings.

SUBJECT: Concept of Operations and Implementation Plan and Schedule

OBJECTIVE: To provide the contractor () with sufficient information on three substantive intelligence areas during the next two months (i.e. August and September) to enable them to develop a realistic concept of operations with a related implementation plan and schedule. The three areas selected should be ones which could have a potentiality high-pay off if a cooperative network of computers were employed.

Substantive Intelligence Areas: The three substantive intelligence areas to be examined are:

1. Sino-Soviet Strategic Weapon Systems (Offensive and Defensive)
- 2.
- 3.

Security Clearances: () will be the contractor for this study and they have personnel who have SI and/or TK clearances.

Access and Information Required: Contractors will require information from CIA, DIA and NSA for each major activity related to the three substantive intelligence areas being examined. For each of these activities they will require following information:

1. Mission and Objectives
2. Description of Operation
3. Flow of Input Information
 - a. Sources
 - b. Media
 - c. Volume
 - d. Frequency
 - e. Processes (manual and machine)
 - f. Reports and Files received and produced
4. Support Files
 - a. Manual and Machine Files
 - b. Formatted and Unformatted machine files
 - c. Micro-imagery Files
 - d. Photographs
5. ADP Support
 - a. Remote vs Off-Line batch processing
 - b. Computational
 - c. Information Retrieval
6. Communications Support

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7. Gross Annual Cost of Effort

- a. Manpower
- b. Dollar

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